

FIG. 1**NUCLEOTIDE AND AA SEQUENCE**

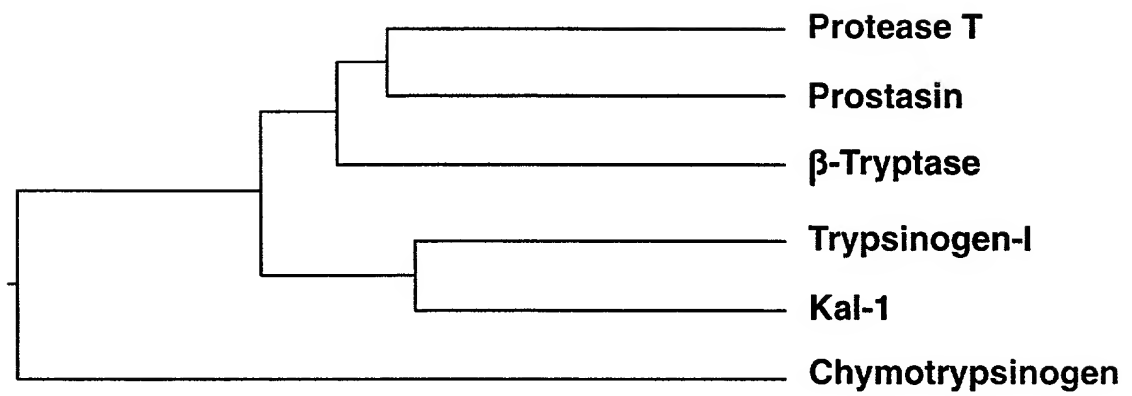
Nucleic acid sequence of Protease T (SEQ.ID.NO.:1)

GACCACGGCCCTGCGCCCCAGCCAGGCCTGAGGACATGAGGCGGCCGGCGCGGTGCCGC
 TCCTGCTGCTGCTGTGT'TTTGGGTCTCAGAGGGCCAAGGCAGCAACAGCCTGTGGTCCGCC
 CCAGGATGCTGAACCGAATGGTGGGCGGGCAGGACACGCAGGAGGGCGAGTGGCCCTGGC
 AAGTCAGCATCCAGCGCAACGGAAGCCACTTCTGCGGGGGCAGCCTCATCGCGGAGCAGT
 GGGTCCTGACGGCTGCGCACTGCTTCCGCAACACCTCTGAGACGTCCCTGTACCAGGTCC
 TGCTGGGGGCAAGGCAGCTAGTGCAGCCGGGACCACACGCTATGTATGCCCCGGGTGAGGC
 AGGTGGAGAGCAACCCCTGTACCAGGGCACGGCCTCCAGCGCTGACGTGGCCCTGGTGG
 AGCTGGAGGCACCAAGTGCCCTTCACCAATTACATCCTCCCCGTGTGCCTGCCTGACCCCT
 CGGTGATCTTTGAGACGGGCATGAACTGCTGGGTCACTGGCTGGGGCAGCCCCAGTGAGG
 AAGACCTCCTGCCCCGAACCGCGGATCCTGCAGAACTCGCTGTGCCCATCATCGACACAC
 CCAAGTGCAACCTGCTCTACAGCAAAGACACCGAGTTTGGCTACCAACCCAAAACCATCA
 AGAATGACATGCTGTGCGCCGGCTTCGAGGAGGGCAAGAAGGATGCCTGCAAGGGCGACT
 CGGGCGGCCCCCTGGTGTGCCTCGTGGGTCACTCGTGGCTGCAGGCGGGGGTGATCAGCT
 GGGGTGAGGGCTGTGCCCGCCAGAACCGCCAGGTGTCTACATCCGTGTACCGCCACC
 ACAACTGGATCCATCGGATCATCCCCAACTGCAGTTCCAGCCAGCGAGGTTGGGCGGCC
 AGAAGTGAGACCCCCGGGGCCAGGAGCCCCCTTGAGCAGAGCTCTGCACCCAGCCTGCCCCG
 CCCACACCATCCTGCTGGTCCCTCCCAGCGCTGCTGTTGCACCTGTGAGCCCCACCAGACT
 CATTTGTAAATAGCGCTCCTTCCCTCCCCTCTCAAATACCCTTATTTTATTTATGTTTCTC
 CCAATAAAAACCCAGCCTGTGTGCCAGCTG

>Amino Acid Sequence of Protease T (SEQ.ID.NO.:7)

MRRPAAVPLLLLLCFGSQRAKAATACGRPRMLNRMVGGQDTQEGEWPWQVSIQRNGSHFC
 GGSLIAEQWVLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAMYARVRQVESNPLYQGTA
 SSADVALVELEAPVPFTNYILPVCLPDPSVIFETGMNCWVTGWGSPSEEDLLPEPRILQK
 LAVPIIDTPKCNLLYSKDTEFGYQPKTIKNDMLCAGFEEGKKDACKGDSGGPLVCLVGQS
 WLQAGVISWGEGCARQNRPGVYIRVTAHHNWIHRIIPKLQFQPARLGGQK

FIG. 2



20240705 10:07:02

FIG. 3

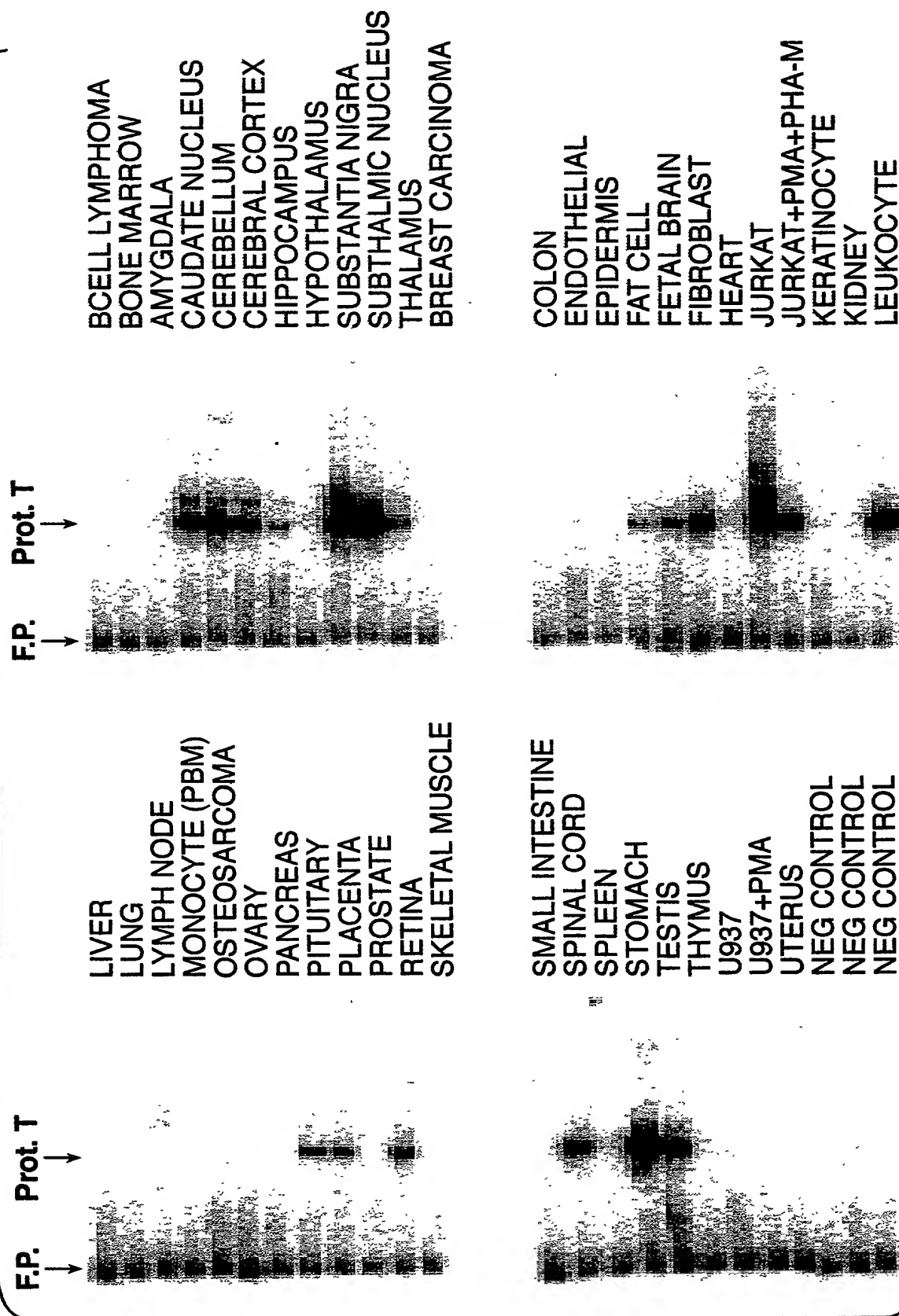


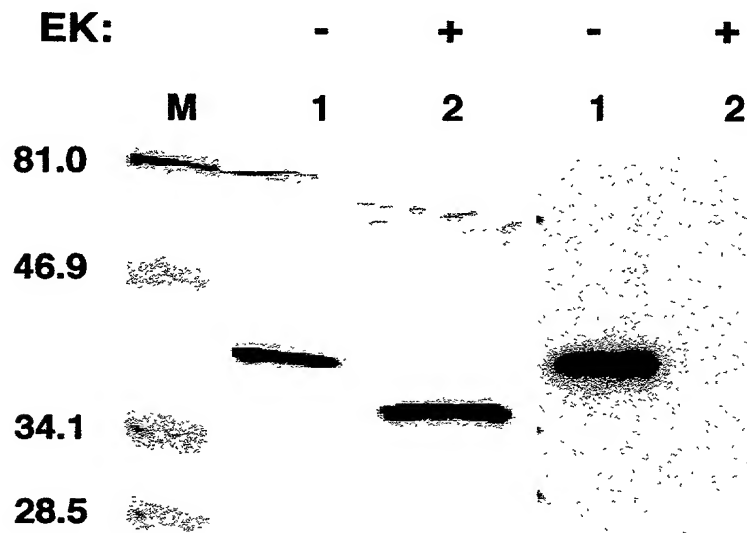
FIG. 4**FUSION PROTEIN**

Nucleic Acid sequence of PFEK-PROTT-HIS fusion protein
(SEQ.ID.NO.:8).

GAATTCACCACCATGGACAGCAAAGGTTTCGTCGCAGAAATCCCGCCTGCTCCTGCTGCTG
GTGGTGTCAAATCTACTCTTGTGCCAGGGTGTGGTCTCCGACTACAAGGACGACGACGAC
GTGGACGCGGCCGCTCTTGCTGCCCCCTTTGATGATGATGACAAGATCGTTGGGGGCTAT
GCTCTAGAGGAGGGCGAGTGGCCCTGGCAAGTCAGCATCCAGCGCAACGGAAGCCACTTC
TGCGGGGGCAGCCTCATCGCGGAGCAGTGGGTCTGACGGCTGCGCACTGCTTCCGCAAC
ACCTCTGAGACGTCCCTGTACCAGGTCTGCTGGGGGCAAGGCAGCTAGTGCAGCCGGGA
CCACACGCTATGTATGCCCGGGTGAGGCAGGTGGAGAGCAACCCCTGTACCAGGGCAGC
GCCTCCAGCGCTGACGTGGCCCTGGTGGAGCTGGAGGCACCAGTGCCCTTCACCAATTAC
ATCCTCCCCGTGTGCCTGCCTGACCCCTCGGTGATCTTTGAGACGGGCATGAACTGCTGG
GTCACCTGGCTGGGGCAGCCCCAGTGAGGAAGACCTCCTGCCCGAACCGCGGATCCTGCAG
AAACTCGCTGTGCCCATCATCGACACACCCAAGTGCAACCTGCTCTACAGCAAAGACACC
GAGTTTGGCTACCAACCCAAAACCATCAAGAATGACATGCTGTGCGCCGGCTTCGAGGAG
GGCAAGAAGGATGCCTGCAAGGGCGACTCGGGCGGCCCCCTGGTGTGCCTCGTGGGTGAG
TCGTGGCTGCAGGCGGGGGTGATCAGCTGGGGTGAGGGCTGTGCCCGCCAGAACCGCCCA
GGTGTCTACATCCGTGTACCGCCCAACCAACTGGATCCATCGGATCATCCCCAACTG
CAGTTCCAGCCAGCGAGGTTGGGCGGCCAGAACTCTAGACATCACCATCACCATCACTAG
CGGCCGCTTCCCTTTAGTGAGGGTTAATGCTTCGAGCAGACATGATAAGATACATTGATG
AGTTTGGACAAACCACAACCTAGAATGCAGTGAAAAAATGCTTTATTTGTGAAATTTGTG
ATGCTATTGCTTTATTTGTAACCATTTATAAGCTGCAATAAACAAGTTGAC

Amino Acid sequence of PFEK-PROTT-HIS fusion protein
(SEQ.ID.NO.:9).

MDSKGSSQKSRLLLLLLVSNLLLCQGVVSDYKDDDDVDAAALAAPFDDDDKIVGGYALEE
GEWPWQVSIQRNGSHFCGSLIAEQWVLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAM
YARVRQVESNPLYQGTASSADVALVELEAPVPFTNYILPVCLPDPSVIFETGMNCWVTGW
GSPSEEDLLPEPRILQKLAVPIIDTPKCNLLYSKDTEFGYQPKTIKNDMLCAGFEEGKGD
ACKGDSGGPLVCLVGQSWLQAGVISWGEQCARQNRPGVYIRVTAHHNWIHRIIPKLQFQP
ARLGGQKSRHHHHHH

FIG. 5

Protease: PFEK-Protease T-HIS

FIG. 6**Protease Activity of Protease T**

- H-D-Pro-HHT-Arg-pNA
▤ H-D-Lys(CBO)-Pro-Arg-pNA
▨ H-DL-Val-Leu-Arg-pNA

